THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OF PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

- 1. A method for the transformation of a monocot plant comprising,
 - exposing explant tissue of said monocot plant to an Agrobacterium strain under vacuum in the presence of a phenolic compound, said Agrobacterium strain comprising a heterologous gene of interest within a vector;
 - ii) removing said Agrobacterium from said explant tissue;
 - iii) adding an antibiotic against said Agrobacterium; and
 - iv) selecting explant tissue for occurrence of said heterologous gene of interest.
- 2. The method of claim 1 wherein said step of selecting explant tissue further comprises:
 - i) maintaining said explant tissue on media in absence of a selection agent producing differentiated calli;
 - ii) transferring said differentiated calli to media containing a selection agent; and
 - iii) obtaining calli that grow in the presence of the selection agent.
- 3. The method of claim 1 wherein said Agrobacterium comprises a regular binary vector.
- 4. The method of claim 1 wherein said explant tissue is callused coleoptile node.
- 5. The method of claim 1 wherein said explant tissue comprises a zygotic embryo.
- 6. The method of claim 2 wherein said Agrobacterium comprises a super virulent vector.

- 7. The method of claim 1, wherein said phenolic compound is acetosyringone.
- 8. The method of claim 7, wherein said explant tissue is exposed under vacuum from about 10 to about 15 min.
- 9. The method of claim 8, wherein said antibiotic comprises claforan.
- 10. A method for the transformation of a monocot plant comprising,
 - placing explant tissue of said monocot plant into media comprising a suspension of Agrobacterium to obtain a mixture, said Agrobacterium strain comprising a heterologous gene of interest within a vector;
 - ii) maintaining said mixture under vacuum in the presence of acetosyringone;
 - iii) releasing said vacuum and further incubating said explant tissue in the presence of said Agrobacterium;
 - iv) transferring said explant tissue to fresh media comprising acetosyringone and incubating said explant tissue in the dark;
 - v) washing said explant tissue with an antibiotic against said Agrobacterium,
 - vi) transferring said explant tissue to fresh media and allowing said explant tissue to differentiate, thereby producing differentiated calli;
 - vii) placing said differentiated calli onto media containing a selection agent, and maintaining said differentiated calli in the light; and
 - viii) obtaining calli that grow in the presence of the selection agent.
- 11. The method of claim 10 wherein said Agrobacterium comprises a super virulent vector.
- 12. The method of claim 10 wherein said Agrobacterium comprises a regular binary vector.

- 13. The method of claim 10 wherein the fresh media of step v) comprises said antibiotic against said *Agrobacterium*.
- 14. The method of claim 10 wherein said explant tissue is callused coleoptile node.
- 15. The method of claim 10 wherein said explant tissue comprises a zygotic embryo.
- 16. The method of claim 13 wherein said antibiotic is claforan.
- 17. A method for the transformation of a monocot plant comprising,
 - placing explant tissue of said monocot plant into media comprising a
 phenolic compound, and a suspension of Agrobacterium to obtain a
 mixture, said Agrobacterium strain comprising a heterologous gene of
 interest within a vector;
 - ii) washing said explant tissue with an antibiotic against said Agrobacterium and transferring said explant tissue to fresh media comprising acetosyringone and incubating said explant tissue in the dark;
 - iii) transferring said explant tissue to fresh media and allowing said explant tissue to differentiate, thereby producing differentiated calli;
 - iv) placing said differentiated calli to media containing a selection agent, and maintaining said differentiated calli in the light; and
 - v) obtaining calli that grow in the presence of the selection agent.
- 18. The method of claim 17 wherein said Agrobacterium comprises a super virulent vector.
- 19. The method of claim 17 wherein said Agrobacterium comprises a regular binary vector.

- 20. The method of claim 17 wherein the media of step iii) comprises said antibiotic against said *Agrobacterium*.
- 21. The method of claim 17 wherein said explant tissue is callused coleoptile node.
- 22. The method of claim 17 wherein said explant tissue comprises a zygotic embryo.
- 23. The method of claim 2, wherein, in said step of maintaining, said explant tissue is maintained on media in absence of a selection agent from about 3 weeks to about 8 weeks.
- 24. The method of claim 10, wherein, in said step of transferring, said explant tissue is maintained on media in absence of a selection agent from about 3 weeks to about 8 weeks.
- 25. The method of claim 17, wherein, in said step of transferring, said explant tissue is maintained on media in absence of a selection agent from about 3 weeks to about 8 weeks.